

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A lens for reading an original, comprising:
first, second, third, and fourth lens groups including at least five lenses, sequentially arranged from an object side;
the first lens group having a positive first lens;
the second lens group having a negative second lens;
the third lens group having a positive reflecting power and including a third lens and a fourth lens cemented to each other;
the fourth lens group including a positive meniscus fifth lens or a negative meniscus fifth lens having a convex surface facing the object side;
~~five lenses as a whole including at least two positive and two negative lenses;~~
~~an aspherical surface provided on at least one a surface of said five lenses;~~
~~four lens groups of five lenses which include a cemented lens constructed by cementing one of said positive lenses and one of said negative lenses; and~~
an aperture stop disposed between the said second lens group and said third lens group; wherein
~~said cemented lens is disposed adjacent to the aperture stop.~~

Claim 2 (Canceled).

Claim 3 (Currently Amended): A lens for reading an original, comprising:
first, second, third, and fourth lens groups including at least five lenses and including at least two positive lenses and two negative lenses, sequentially arranged from an object side;

an aspherical surface provided on at least one surface of said five lenses;
said second lens group having a cemented lens which includes a positive lens and a
negative lens; and

~~The lens according to claim 1, wherein said original reading lens comprises;~~
~~first to fourth lens groups sequentially arranged from an object side; wherein~~
~~the first lens group is composed of a first lens having a positive refracting power;~~
~~the second lens group is composed of a second lens having a negative refracting~~
~~power;~~

~~the third lens group having a positive refracting power is composed of a cemented~~
~~lens constructed by cementing third and fourth lenses;~~

~~the~~ an aperture stop is disposed between said second lens group and said third lens
~~groups; and group~~

~~the fourth lens group is composed of a fifth lens having a positive or a negative lens~~
~~power.~~

Claim 4 (Currently Amended): The lens according to claim ~~[[3]]~~ 1, wherein said
third lens is a positive lens and said fourth lens is a negative lens, ~~[[in the]]~~ and a cemented
lens ~~which~~ is constructed by the third and fourth lenses.

Claim 5 (Currently Amended): The lens according to claim ~~[[3]]~~ 1, wherein said
third lens is a negative lens and said fourth lens is a positive lens, ~~[[in the]]~~ and a cemented
lens ~~which~~ is constructed by the third and fourth lenses.

Claim 6 (Currently Amended): The lens according to claim 1, wherein at least one
surface of ~~[[a]]~~ the first lens is said aspherical surface.

Claim 7 (Currently Amended): The lens according to claim ~~[[3]]~~ 1, wherein said fifth lens is ~~[[a]]~~ the negative lens.

Claim 8 (Canceled).

Claim 9 (Currently Amended): The lens according to claim 4, wherein at least one surface of ~~[[a]]~~ the first lens is ~~[[an]]~~ the aspherical surface.

Claim 10 (Currently Amended): The lens according to claim 5, wherein at least one surface of ~~[[a]]~~ the first lens is ~~[[an]]~~ the aspherical surface.

Claim 11 (Canceled).

Claim 12 (Currently Amended): The lens according to claim ~~[[3]]~~ 1, wherein a combined focal length f with respect to an e line of an entire lens system, a focal length f_1 with respect to an e line of ~~[[a]]~~ the first lens counted from ~~[[an]]~~ the object side, averages: n_{\square} and n_{\blacksquare} of all positive lenses and all negative lenses, respectively, of ~~[[in]]~~ a refractive index with respect to a d line of a lens material, and averages: ν_{\square} and ν_{\blacksquare} of all positive lenses and all negative lenses, respectively, of an Abbe's number of ~~[[a]]~~ the lens material satisfy following conditions:

$$\text{[[1-2)]} \quad 0.40 < f_1 / f < 0.57 \quad (1)$$

$$\text{[[2-2)]} \quad 0.08 < n_{\square} - n_{\blacksquare} < 0.14 \quad (2)$$

$$\text{[[3-2)]} \quad 3.47 < \nu_{\square} - \nu_{\blacksquare} < 19.49 \quad (3).$$

Claim 13 (Currently Amended): The lens according to claim [[1]] 3, wherein said ~~original reading lens~~ lens for reading an original comprises[[;]] the first to fourth lens groups sequentially arranged from [[an]] the object side[[;]], wherein

the first lens group ~~is composed of~~ comprises a first lens having a positive refracting power[[;]],

the second lens group having a negative refracting power ~~is composed of~~ comprises the cemented lens constructed by cementing a second lens having a positive refracting power and a third lens having a negative refracting power[[;]],

the aperture stop is disposed between said second and third lens groups[[.]],

the third lens group ~~is composed of~~ comprises a fourth lens having a negative refracting power[[;]], and

the fourth lens group ~~is composed of~~ comprises a fifth lens having a positive refracting power.

Claim 14 (Currently Amended): The lens according to claim [[13]] 3, wherein at least one surface of [[said]] a fourth lens is [[an]] the aspherical surface.

Claim 15 (Currently Amended): The lens according to claim [[13]] 3, wherein a combined focal length f with respect to an e line of an entire lens system, a focal length f_1 with respect to an e line of a first lens counted from an object side, averages: n_{ave} and n_{ave} of all positive lenses and all negative lenses [[in]], respectively, of a refractive index with respect to a d line of a lens material, and averages: ν_{ave} and ν_{ave} of all positive lenses and all

negative lenses, respectively, of an Abbe's number of [[a]] the lens material satisfy following conditions:

$$\text{[[(1-3)]]} \quad 0.54 < f_1 / f < 1.14 \quad (4)$$

$$\text{[[(2-3)]]} \quad -0.16 < n_{\text{L}} - n_{\text{U}} < 0.05 \quad (5)$$

$$\text{[[(3-3)]]} \quad 18.11 < \nu_{\text{L}} - \nu_{\text{U}} < 32.13 \quad (6).$$

Claim 16 (Currently Amended): The lens according to claim 15, wherein at least one surface of a fourth lens is [[an]] the aspherical surface.

Claim 17 (Currently Amended): The lens according to claim 1, wherein said five lenses are all glass lenses, and said ~~aspherical plane~~ aspherical surface is formed by a glass mold.

Claim 18 (Currently Amended): The lens according to claim 17, wherein at least one surface of [[a]] the fourth lens is [[an]] the aspherical surface.

Claim 19 (Currently Amended): A method for reading an original, comprising ~~the steps of:~~

preparing a lens for reading [[the]] an original, the lens including: four lens groups including at least five lenses, sequentially arranged from an object side, a first lens group having a positive first lens, a second lens group having a negative second lens, a third lens group having a positive reflecting power in which a third lens and a fourth lens are cemented, a fourth lens group including a positive meniscus fifth lens or a negative meniscus fifth lens having a convex surface facing the object side, an aspherical surface provide on a surface of

said five lenses, and an aperture stop disposed between said second lens group and said third lens group;

~~five lenses as a whole including at least two positive and two negative lenses; an aspherical surface provided on at least one surface of said five lenses; four lens groups for five lenses which include a cemented lens constructed by cementing one of said positive lenses and one of said negative lenses; an aperture stop disposed between the second and third lens groups; and said cemented lens being disposed adjacent to the aperture stop;~~

disposing the original on a contact glass in plane facing said first group lens;

illuminating said original in a slit like shape;

imaging by reducing a reflected light from a portion illuminated in the slit like shape on a line sensor by said ~~original reading lens~~ for reading an original; and

reading an original image by illuminating and scanning a surface of said original with relatively displacing the illuminated portion and the original in a direction perpendicular to a longitudinal direction of said portion illuminated in the slit like shape.

Claim 20 (Currently Amended): The method according to claim 19, wherein ~~said method is constructed in such a manner that~~ a degree of illumination in said illuminated portion in the slit like shape in the original, on said contact glass, increases from a center of the slit toward both end portions in a longitudinal direction of the ~~[[silt]]~~ slit.

Claim 21 (Currently Amended): A device for reading an original, comprising~~[[;]]~~:
an illumination system ~~for illuminating~~ configured to illuminate an original;
an image-forming lens ~~for reducing and imaging~~ configured to reduce and image a light reflected on the original illuminated by the illumination system;

a line sensor ~~for conducting~~ configured to conduct a photoelectric transfer of an original image imaged by the image-forming lens; and

said image-forming lens including[;]:

at least five lenses as a whole including at least two positive and two negative lenses[;],

an aspherical surface provided on at least one surface of said five lenses[;],

four lens groups for the at least five lenses which include a cemented lens constructed by cementing one of said positive lenses and one of said negative lenses[;],

a fourth lens group including a positive meniscus fifth lens or a negative meniscus fifth lens having a convex surface facing the object side,

an aperture stop disposed between the second and third lens groups[;], and
said cemented lens being disposed adjacent to the aperture stop.

Claim 22 (Currently Amended): The device according to claim 21, wherein a component ~~for decomposing~~ configured to decompose a color to read the original image with a full-color is included on an optical path of an optical system.

Claim 23 (Currently Amended) An image forming apparatus for forming an image information as an image, comprising[;]:

a device ~~for reading~~ configured to read an original image in order to change the original image to the image information; and

said device ~~for reading the original image~~ including[;]:

an illumination system ~~for illuminating~~ configured to illuminate an original[;],

an image-forming lens ~~for reducing and imaging~~ configured to reduce and image a light reflected on the original illuminated by the illumination system[[;]], and
a line sensor ~~for conducting~~ configured to conduct a photoelectric transfer of the original image imaged by the image-forming lens[[;]], and
said image-forming lens having[[;]]:
 at least five lenses as a whole including at least two positive and two negative lenses[[;]],
 an aspherical surface provided on at least one surface of said five lenses[[;]],
 four lens groups for the at least five lenses which include a cemented lens constructed by cementing one of said positive lenses and one of said negative lenses[[;]],
 a fourth lens group including a positive meniscus fifth lens or a negative meniscus fifth lens having a convex surface facing the object side,
 an aperture stop disposed between the second and third lens groups[[;]], and
 said cemented lens being disposed adjacent to the aperture stop.

Claim 24 (Currently Amended): An image forming apparatus for forming an image information as an image₁ comprising[[;]]:

 a device ~~for reading an original~~ configured to read an original image ~~in order~~ to change the original image to the image information; and
 said device ~~for reading the original~~ including[[;]]:
 an illumination system to illuminate the original[[;]],
 an image-forming lens to reduce and image a light reflected on the original illuminated by the illumination system[[;]], and

a line sensor to conduct a photoelectric transfer of the original image imaged by the image-forming lens[[;]], and

said image-forming lens having[[;]]:

at least five lenses as a whole including at least two positive and two negative lenses[[;]],

an aspherical surface provided on at least one surface of said five lenses[[;]],

four lens groups for the at least five lenses which include a cemented lens constructed by cementing one of said positive lenses and one of said negative lenses[[;]],

a fourth lens group including a positive meniscus fifth lens or a negative meniscus fifth lens having a convex surface facing the object side,

an aperture stop disposed between the second and third lens groups[[;]], and

said cemented lens being disposed adjacent to the aperture stop[[;]],

wherein

said device ~~for reading the original~~ includes a component ~~for decomposing~~ configured to decompose a color to read the original image with a full-color on an optical path of an optical system.

Claim 25 (Currently Amended): The apparatus according to claim 21, wherein a photosensitive media ~~for forming~~ configured to form an image by writing an image information with a light scanning is included.

Claim 26 (Currently Amended): The apparatus according to claim 22, wherein a photosensitive media ~~for forming~~ configured to form an image by writing an image information with a light scanning is included.

Claim 27 (Original): The apparatus according to claim 25, wherein as said photosensitive media, a photoconductive photoconductor is used so as to visualize an electrostatic latent image, which is written by the light scanning, with a prescribed color of a toner.

Claim 28 (Original): The apparatus according to claim 26, wherein as said photosensitive media, a photoconductive photoconductor is used so as to visualize an electrostatic latent image, which is written by the light scanning, with a prescribed color of a toner.

Claim 29 (New): A lens for reading an original, comprising:

- first, second, third, and fourth lens groups including at least five lenses, sequentially arranged from an object side;
- the first lens group having a positive first lens;
- the second lens group having a negative second lens;
- the third lens group having a positive reflecting power in which a positive third lens and a negative fourth lens are cemented;
- the fourth lens group comprising a positive meniscus fifth lens having a concave surface facing the object side;
- an aspherical surface provided on at least one surface of the five lenses; and
- an aperture stop disposed between said second lens group and said third lens group.